

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Canceled)

Claim 2. (Canceled)

Claim 3. (Canceled)

Claim 4. (Canceled)

Claim 5. (Canceled)

Claim 6. (Canceled)

Claim 7. (Currently Amended) A method of undoing changes made to the content of at least one database, comprising the steps of:

- (1) storing data in a database;
- (2) performing a plurality of loads to said database, wherein the load data comprises a load table and the database comprises a target table, and wherein the database table rows and the load table rows are correlated via a primary key; and
- (3) undoing at least one of said plurality of loads,
wherein the resulting content of the database reflects the data as if the undone load had not been performed, and
wherein performing a load in step (2) comprises the steps of:
 - i. inserting rows into the target with new key values;
 - ii. updating rows in the target table with existing key values; and
 - iii. deleting rows from the target table when a row's key value does not exist in the load table,

~~The method of claim 6, wherein during step (2) i., when inserting a row with a primary key which at some point in the past was deleted prior to said load, those columns for which the load does not contain data are set to the values that they had when the row was last deleted.~~

Claim 8. (Canceled)

Claim 9. (Canceled)

Claim 10. (Canceled)

Claim 11. (Canceled)

Claim 12. (Canceled)

Claim 13. (Canceled)

Claim 14. (Canceled)

Claim 15. (Canceled)

Claim 16. (Canceled)

Claim 17. (Currently Amended) A system for undoing changes made to the content of at least one database, comprising:

a processor; and

a memory;

wherein in the memory is stored a database and computer readable instructions such that when the computer readable instructions are executed by the processor the system is adapted to perform the steps of:

(1) storing data in a database;

(2) performing a plurality of loads to the database, wherein the load comprises a load table and the database comprises a target table, and wherein the database table rows and the load table rows are correlated via a primary key; and

(3) undoing at least one of said plurality of loads,
wherein performing a load in step (2) comprises the steps of:

- i. inserting rows into the target with new key values;
- ii. updating rows in the target table with existing key values; and
- iii. deleting rows from the target table when a row's key value does not exist in the load table,

wherein the resulting content of the database reflects the data as if the undone load had not been performed, and

~~The system of claim 16,~~ wherein during step (2) i., when inserting a row with a primary key which at some point in the past was deleted prior to said load, those columns for which the load does not contain data are set to the values that they had when the row was last deleted.

Claim 18. (Canceled)

Claim 19. (Canceled)

Claim 20. (Canceled)

Claim 21. (Canceled)

Claim 22. (Canceled)

Claim 23. (Canceled)

Claim 24. (Canceled)

Claim 25. (Canceled)

Claim 26. (Canceled)

Claim 27. (Currently Amended) A computer readable medium storing computer readable instructions that, when executed by a processing unit, cause a data processing device to undo changes made to the content of at least one database by performing the steps of:

- (1) storing data in a database;
 - (2) performing a plurality of loads to said database, wherein the load data comprises a load table and the database comprises a target table, and wherein the database table rows and the load table rows are correlated via a primary key; and
 - (3) undoing at least one of said plurality of loads;
- wherein the resulting content of the database reflects the data as if the undone load had not been performed, and

wherein performing a load in step (2) comprises the steps of:

- i. inserting rows into the target with new key values;
- ii. updating rows in the target table with existing key values; and
- iii. deleting rows from the target table when a row's key value does not exist in the load table,

~~The computer readable medium of claim 26,~~ wherein during step (2) i., when inserting a row with a primary key which at some point in the past was deleted prior to said load, those columns for which the load does not contain data are set to the values that they had when the row was last deleted.

Claim 28. (Canceled)

Claim 29. (Canceled)

Claim 30. (Canceled)

Claim 31. (Currently Amended) The method of claim + 7, further comprising the step of:

- (4) reconstructing a load sequence of said database as it existed prior to step (3),

wherein, subsequent to step (3), the resulting content of the database reflects the data as if the undone load had not been performed and, subsequent to step (4), the resulting content of the database reflects the data as if the one of said plurality of loads had been performed.

Claim 32. (Canceled)

Claim 33. (Currently Amended) The method of claim ~~32~~ 7, further comprising the step of:

- (4) recording information in a ~~second~~-history table, separate from said target table, wherein said information corresponds to each modification made to said target table.

Claim 34. (Currently Amended) The method of claim 33, further comprising the step of:

- (5) reconstructing a historical state of said target table at a discrete time in said load sequence, wherein said reconstructing is performed based at least in part on the information in the ~~second~~-history table.

Claim 35. (Canceled)

Claim 36. (Currently Amended) The method of claim ~~32~~ 7, wherein a table structure of a table in a first load is different from a table structure of a table in a second load.

Claim 37. (Canceled)

Claim 38. (Canceled)

Claim 39. (Currently Amended) The system of claim ~~11~~ 17, wherein the computer readable instructions further cause the system to perform the step of:

- (4) reconstructing a load sequence of said database as it existed prior to step (3),

wherein, subsequent to step (3), the resulting content of the database reflects the data as if the undone load had not been performed and, subsequent to step (4), the resulting content of the database reflects the data as if the one of said plurality of loads had been performed.

Claim 40. (Canceled)

Claim 41. (Currently Amended) The system of claim 40 17, wherein the computer readable instructions further cause the system to perform the step of:

- (4) recording information in a ~~second~~-history table, separate from said target table, wherein said information corresponds to each modification made to said target table.

Claim 42. (Currently Amended) The system of claim 41, wherein the computer readable instructions further cause the system to perform the step of:

- (5) reconstructing a historical state of said target table at a discrete time in said load sequence, wherein said reconstructing is performed based at least in part on the information in the ~~second~~-history table.

Claim 43. (Canceled)

Claim 44. (Currently Amended) The system of claim 40 17, wherein a table structure of a table in a first load is different from a table structure of a table in a second load.

Claim 45. (Canceled)

Claim 46. (Canceled)

Claim 47. (Currently Amended) The computer readable medium of claim 24 27, wherein the computer readable instructions further cause the data processing device to perform the step of:

- (4) reconstructing a load sequence of said database as it existed prior to step (3),

wherein, subsequent to step (3), the resulting content of the database reflects the data as if the undone load had not been performed and, subsequent to step (4), the resulting content of the database reflects the data as if the one of said plurality of loads had been performed.

Claim 48. (Canceled)

Claim 49. (Currently Amended) The computer readable medium of claim 48 27, wherein the computer readable instructions further cause the data processing device to perform the step of:

- (4) recording information in a ~~second~~-history table, separate from said target table, wherein said information corresponds to each modification made to said target table.

Claim 50. (Currently Amended) The computer readable medium of claim 49, wherein the computer readable instructions further cause the data processing device to perform the step of:

- (5) reconstructing a historical state of said target table at a discrete time in said load sequence, wherein said reconstructing is performed based at least in part on the information in the ~~second~~-history table.

Claim 51. (Canceled)

Claim 52. (Currently Amended) The computer readable medium of claim 48 27, wherein a table structure of a table in a first load is different from a table structure of a table in a second load.

Claim 53. (Canceled)

Claim 54. (Canceled)